

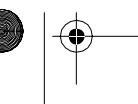
Cat. No. 22-506

**OWNER'S MANUAL**

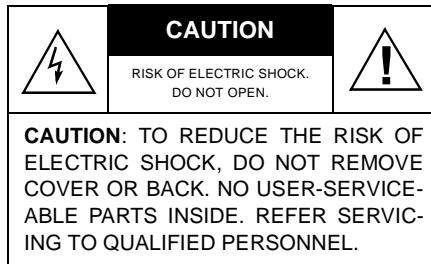
Please read before using this equipment.

**12-Volt • 10-Amp  
Regulated Power Supply**

**R**  
**RadioShack™**



**Warning:** To prevent fire or shock hazard, do not expose this product to rain or moisture.



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

This power supply has been tested and found to comply with all applicable UL standards.

***Not recommended for outdoor use.***

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## FEATURES

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Your RadioShack 12-Volt • 10-Amp Regulated Power Supply is designed to power equipment that requires 12V DC automotive power. The power supply converts standard 120V AC household power to 13.8V DC power and can supply up to 10 amps of continuous power.

**Note:** Your vehicle's 12-volt electrical system provides 13.8 Volts when the engine is running.

If you are an electronic hobbyist or technician, you will appreciate the many uses for the power supply at your workbench or in your house. For example, use your CB mobile transceiver as a base station, check the operation of autosound systems before you install them in your vehicle, or even power marine equipment such as pumps.

Your power supply's features include:

**Regulated Output Voltage** — makes it safe to use with mobile CBs, scanners, ham radios, CD players, tape players, cellular phones, or anything you would power with a vehicle's DC electrical system.

**Electronic Overload Protection** — automatically lowers output voltage if the device you are trying to power draws too much current.

**Binding Post Terminals** — let you connect a device that requires input power from positive and negative wires.

**Cigarette-Lighter Socket** — lets you connect a device that is designed to be powered from a cigarette-lighter socket.

## **IMPORTANT SAFETY INSTRUCTIONS**

### **SAVE THESE INSTRUCTIONS!**

**DANGER:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

This manual contains important safety and operating instructions for this power supply. Before you use the power supply, read all the instructions and cautionary markings in this manual, on the power supply, and on the product that you will connect to the power supply.

**Warning:** To reduce the risk of injury:

- Do not use the power supply near water (for example, a bathtub, washbowl, kitchen sink, laundry tub, wet basement, or swimming pool).
- Do not place the power supply on an unstable cart, stand or table. If the power supply falls, it could injure a person or cause serious damage to the power supply.
- Do not overload power outlets or extension cords. An overload can result in fire or electric shock.
- Do not use an extension cord unless absolutely necessary. Using an improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:
  - a. The pins on the extension cord's plug are of the same number, size, and shape as those of the plug on the power supply.
  - b. The extension cord is properly wired and in good electrical condition.
  - c. The extension cord's wire size is at least 18 AWG.
- Do not disassemble the power supply; take it to a qualified service technician when service or repair is required. Improper reassembly may result in a risk of electric shock or fire.

- Do not use an attachment not recommended or sold by RadioShack or this could result in a risk of fire, electric shock, or injury to persons.
- Never push any object into the slot in the power supply. It could touch dangerous voltage points or short out parts resulting in a fire or electrical shock.

**Caution:** To reduce the risk of damage:

- Do not expose the power supply to rain or excessive moisture.
- Do not operate the power supply if it has been dropped or damaged in any way. Take it to a qualified service technician for repair.
- Slots and openings on the back and bottom of the power supply's cabinet are for ventilation. To ensure the power supply's reliable operation and to protect it from overheating, be sure these openings are not blocked or covered.
- The power supply should be operated only from a standard AC outlet that provides 120V AC/60 Hz, as indicated on the label. If you are not sure of the type of power supplied to your home, consult your local power company.
- For added safety, the power supply's polarized plug (one blade wider than the other) fits only into a polarized outlet. If your AC outlet is not designed for the polarized plug, have an electrician install the correct outlet, or use an adapter to ground the power supply safely. Do not defeat the safety purpose of the plug.
- To protect the power supply during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the AC outlet. This will prevent damage to the power supply from lightning and power surges.
- Unplug the power supply from the outlet before attempting any maintenance or cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning and then wipe it dry immediately.

- Do not operate the power supply with a damaged cord or plug — replace them immediately. To reduce the risk of damage to the electric plug and cord:
  - a. Make sure the cord is not located where it will be stepped on, tripped over, or otherwise subjected to damage or stress.
  - b. Disconnect the power supply by pulling the cord's plug rather than the cord.
- If your power supply does not operate normally, in particular if any unusual sounds or smells come from it, immediately unplug it and contact your local RadioShack store.

## CONNECTIONS

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**Caution:** Make all other connections before you connect the power supply to standard AC power.

### CONNECTING A DEVICE REQUIRING POSITIVE AND NEGATIVE WIRES

1. Turn off the device requiring power.
2. Set the power supply's **POWER** switch to **OFF**.

3. Turn the sleeves of the red and black binding output posts counterclockwise to expose the wire holes.

4. Insert the device's positive wire (usually red) into the red binding post's wire hole, then tighten the binding post's sleeve to secure the wire in place.

**Warning:** To avoid damage to both the power supply and the device:

- Follow the correct polarity (+ to + and – to –) when you connect the power supply and the device.
- Do not let the ends of the positive and negative wires touch each other.

**Notes:**

- The binding posts' wire holes can accommodate wire up to 14 gauge.
  - Your local RadioShack store has a wide selection of banana plugs and hook clips that are convenient for making the connections to the binding posts.
5. Insert the device's negative wire (usually black) into the black binding post's wire hole, then tighten the binding post's sleeve to secure the wire in place.
  6. Plug the power supply's power cord into a standard 120V AC outlet. If you have difficulty inserting the plug, don't force it. Turn it over and reinsert it.

## CONNECTING A DEVICE REQUIRING A CIGARETTE-LIGHTER SOCKET

1. Turn off the device requiring power.
2. Set the power supply's **POWER** switch to **OFF**.
3. Pull off the cigarette-lighter socket's cap on the front of the power supply.

**Note:** Close the socket's cap when you are not using the socket.

4. Plug the device's DC power cord into the power supply's cigarette-lighter socket.
5. Connect the power supply's power cord to a standard 120V AC outlet. If you have difficulty inserting the plug, don't force it. Turn it over and reinsert it.

## OPERATION

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To use the power supply after you connect the device to it, set **POWER** to **ON** to turn it on.

**Note:** If the power supply's **POWER** switch does not light:

- Check all connections and confirm the AC outlet has power.
- If the outlet has power, set **POWER** to **OFF**, reduce the load (by using a device that does not require more than 13.8V DC), then set **POWER** to **ON**. Your power supply's overload protection circuit automatically shuts down the power supply when it is overloaded and resets by turning the **POWER** switch to **OFF**.

## SPECIFICATIONS

### INPUT

Input Voltage ..... 120 VAC  
Input Frequency ..... 60 Hz  
Input Current ..... 3 Amps

### OUTPUT

Output Voltage ..... 13.8 VDC  $\pm$ 0.5 Volts  
Output Current ..... 10 Amps DC Continuous  
Line Regulation ..... Less Than  $\pm$ 5%  
Load Regulation ..... Less Than  $\pm$ 5%  
Overload Protection ..... Fuse 4A/250V  
Output Ripple ..... 150 mV RMS

### GENERAL

Design ..... Linear Type  
Operating Temperature Range ..... 32–68°F  
(0–30°C)  
Output Terminal ..... Two Binding Posts 10 Amp  
Dimensions (HWD) .....  $4\frac{3}{4} \times 7\frac{3}{16} \times 10\frac{1}{16}$  Inches  
(120  $\times$  182  $\times$  256 mm)  
Weight ..... 13 lb 14 oz  
(6.3 kg)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

#### RadioShack Limited Warranty

This product is warranted against defects for 90 days from date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply bring your **RadioShack sales slip** as proof of purchase date to any RadioShack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

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This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

*We Service What We Sell*

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